



SOIL AND WATER
ENVIRONMENTAL
ENHANCEMENT PROGRAM



PANIFA

PROGRAMME D'AMÉLIORATION DU MILIEU PÉDOLOGIQUE ET AQUATIQUE

Canadä





SWEED

is a \$30 million federal-provincial agreement, announced May 8, 1986, designed to improve soil and water quality in southwestern Ontario over the next five years.

PURPOSES

There are two interrelated purposes to the program; first, to reduce phosphorus loadings in the Lake Erie basin from cropland run-off; and second, to improve the productivity of southwestern Ontario agriculture by reducing or arresting soil erosion that contributes to water pollution.

BACKGROUND

The Canada-U.S. Great Lakes Water Quality Agreement called for phosphorus reductions in the Lake Erie basin of 2000 tonnes per year. SWEEP is part of the Canadian agreement, calling for reductions of 300 tonnes per year—200 from croplands and 100 from industrial and municipal sources.



PAMPA

est une entente fédérale-provinciale de 30 millions de dollars, annoncée le 8 mai 1986, et destinée à améliorer la qualité du sol et de l'eau dans le Sud-ouest de l'Ontario.

SES BUTS

Les deux buts de PAMPA sont: en premier lieu de réduire de 200 tonnes par an d'ici 1990 le déversement dans le lac Erie de phosphore provenant des terres agricoles, et de maintenir ou d'accroître la productivité agricole du Sud-ouest de l'Ontario, en réduisant ou en empêchant l'érosion et la dégradation du sol.

SES GRANDES LIGNES

L'entente entre le Canada et les États-Unis sur la qualité de l'eau des Grands Lacs prévoyait de réduire de 2 000 tonnes par an la pollution due au phosphore dans le bassin du lac Erie. PAMPA fait partie de cette entente qui réduira cette pollution de 300 tonnes par an — 200 tonnes provenant des terres agricoles et 100 tonnes provenant de sources industrielles et municipales.

1992-93 SUB-PROGRAM IMPLEMENTATION PLANS

SOUTHWESTERN ONTARIO SOIL AND WATER ENVIRONMENTAL ENHANCEMENT PROGRAM

Agri-Food Development Guelph, Ontario

December, 1991

PREFACE

The attached document contains the 1992-93 Implementation Plans for the various Sub-Programs of the Soil and Water Environmental Enhancement Program for southwestern Ontario (SWEEP). Please note the Sub-Programs administered by the Ontario Ministry of Agriculture and Food officially ended on March 31, 1990. Therefore, no implementation plans for SWEEP Sub-Programs #4, #5 and #6 are contained herein.

In an attempt to increase the readability of these plans, a heavy blue divider separates each of the Sub-Program sections. Within each section, the Implementation Plan Record forms have been produced on blue stock with the 1991-92 and 1992-93 Report of Implementation Plan Goals on pink and white respectively. As well, every page of the document is consecutively numbered and each section is referenced in the Table of Contents. Hopefully, this format will assist in using the document for reference purposes.

SWEEP IMPLEMENTATION PLANS 1992-93

TABLE OF CONTENTS

SUB-PROGE	DESCRIPTION	PAGE
#1 Tech Info	nnology Assessment Panel, Conservation ormation Bureau, Socio-Economic Evaluation	
	Implementation Plan Record	1 2 8
#2 Tech	nnology Evaluation and Development	
	Implementation Plan Record	15 16 22
	nnology Evaluation and Development, Farm	
	Implementation Plan Record	26 27 29
#3 Pile	ot Demonstration Watershed	
	Implementation Plan Record	30 32 35
#3a Wate	er Quality Monitoring	
	Implementation Plan Record	36 37 38
#3b Wate	er Quantity Monitoring	
	Implementation Plan Record	39 40 41
	inistration Monitoring and Public ormation	
Ped	eral	
	Implementation Plan Record	42 43 45

SUB-PROGRAM # 1

Technology Assessment Panel Conservation Information Bureau Socio-Economic Evaluation

IMPLEMENTATION PLAN RECORD

FICHE DU PLAN DE MISE EN OEUVRE

mplementing Branch/Direction generale responsable Agriculture Development Branch	Ontario	Action New Proposal Nouvelle proposition New Proposal Nouvelle proposition X Amendment Modification Renouvellemen
		Period / Période F/Y 1992/93 as at October, 1991
Program / Programme		Sub-program / Sous-programme
Southwestern Ontario Soil and Water Qu Enhancement Program	ality	#1 Technology Assessment Panel, Conservation Inform- ation Bureau, Socio-Economic Evaluation Sub-Program Program Manager: Mike Hicknell, Gary Nelson, Robert W. 519-837-9400 Anderson

The purpose of this Sub-Program is to stimulate adoption of soil management and conservation cropping practices required to improve water quality and reduce soil erosion and degradation, by assessing technology, by interpreting and communicating information and by identifying required public policies and programs.

The Technology Assessment Panel will critically review the technical plans for Sub-Programs, projects and assess technical results. It will also play an active role in assessing current technologies and in recommending and priorizing technologies or technology systems for further development or evaluation.

The Conservation Information Bureau will provide a leadership role in collecting and communicating information on soil and water conservation and management in Ontario.

The Socio-Economic Evaluation component will research the social and economic conditions related to the adoption of those agricultural practices designed to improve soil and water quality.

Linkage to agreement or program objectives / Liens avec les objectifs d'entente ou du programme

This Sub-Program will serve to ensure that resources are directed to the priority areas of research, and that research results and recommendations are appropriate to Southwestern Ontario.

It will play a major role in encouraging farmers to adopt appropriate conservation practices by 1993, ensuring that phosphorus loading targets are met.

Furthermore it will ensure that the policies and programs of all levels of government, farm organizations and agri-business have the benefit of a consistent well thought out social and economic rationale.

The Socio-Economic Evaluation component, by providing insights into the farmer's adoption decision process and the characteristics of effective conservation incentive programs, will ensure that information is available to planners to maximize the potential of any subsequent policies and programs developed to influence soil and water-quality.

Outline of sub-program operation / Description du fonctionnement du sous-programme

The Technology Assessment Panel will be made up of a maximum of 15 core members appointed by Agriculture Canada and OMAF. Additional experts may be added as required.

The Conservation Information Bureau is located at the University of Guelph and is being operated by means of a contribution from the Agriculture Development Branch.

The Agriculture Development Branch will manage the Socio-Economic Evaluation component. The branch will request contract proposals from university researchers and private sector consultants on specific topics in which social and economic research is required.

Research proposals will then be competitively reviewed for funding by a four member review board. Approved research will be conducted under contract to the Agriculture Development Branch.

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RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / N^O de dossuer

100 mg	Goal Statments / Enoncé de (des) bui(s)	Plannad Seion is plan	Actual	Veriance	Explanation / Explication
1992-93	1992-93 RESULT STATEMENT (Agriculture Canada - Agriculture Development Branch - Guelph)				
	By 1993 to have encouraged Southwestern Ontario farmers to adopt the soil management and conservation cropping practices required to reduce phosphorus loading in Lake Erie by 200 tonnes per year and to increase the productivity of the primary agriculture sector.				
1991/92	Tables	365.6	••••		Planned budget figure is revised and reflects Treasury Board refusel to consider 1991/92 MYOP.
TAP CONFONENT	POMENT	0.09	7.1.7		
-	The Technology Assessment Panel to maintain its 15-member multi-disciplinary composition and actively involve its full membership in both a proactive and reactive role.		30/11/91)		1. Orgoing. In 1991/92 a number of members resigned from the Panel for either personal and/or professional reasons. Early in the year Worris Hoag and Len Senyshyn replaced Sam Singer and Rob McLaughlin as CMAR's representatives on the Panel. However, in recent months Diane Dubois, Steve Henderson and Morris Hoag have resigned. TAP membership
	Performance Measures constructive nature of its work, acceptance of advice by other components of SMEEP, all members participate actively, on selected topics Sub-Committees to be formed to pro-actively investigate these areas of interest.				now stands at thirteen. The TAP executive is currently deciding whether or not to recommend replacement members for the final year of the SMEEP program.
3	Nilestones In conjunction with Project Manager, ADB (Ontario) conduct a mid-term review of 1991-92 activities of TAP by October 1, 1991.				a) Completed. On September 27, 1991, the executive members of TAP, in conjunction with their preparation of the Panel's 1992/93 implementation plan, completed a mid-term review of the Panel's 1991/92 activities.
9	Management Committee kept informed of IAP findings and recommendations on a quarterly basis.	******			b) Ongoing. The Panel's recording secretary, on a monthly basis, provides a written report on the Panel's activities to the SWEEP Management Committee.
ni.	The Technology Assessment Panel to provide timely reviews of all technical plans for federal Sub-Programs, and the progress of projects and technical results and to recommend and priorize technologies for evaluation and/or development.	****************			2. Orgoing.

Page 2

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / N^o de dossier

Goal No. But no	Goel Statments / Enoncé de (des) but(s)	Planned Sulon le plan	Actual	Variance	Explanation / Explication
900 av	TAP COMPONENT (Con't)				
	timeliness of TAP comments, constructive nature of TAP comments, constructive nature of TAP comments. TAP to meet on a bi-monthly basis, the implementation plans of all federal Sub-programs reviewed.				
3	Milestones draft Sub-Program Implementation plans reviewed and commented on by TAP by November 30, 1991.				(a) Completed. Draft Sub-Program Implementation Plans were reviewed by the Panel on November 27-28, 1991 with comments provided to Management Committee at their December 17, 1991 meeting.
Q	members to be updated on the progress of all federal projects and research studies at each TAP meeting.				 b) Ongoing. At each TAP meeting the federal SWEEP coordinator provides members with an update on the activities and progress of all SWEEP Sub-Programs.
ni	The Technology Assessment Panel to maintain established liaison with innovative farmers.				3. Ongoing.
ž	Performance Measures - TAP to continue to utilize their contacts with innovative farmers to gather information about new and untested conservation technologies or systems, innovative farmers included in fact finding trips.				
9	Milestones Three members of TAP to attend arrual workshop of irrovative farmers and report successes and problems to subsequent meetings of TAP; this by February 15, 1992.				a) Completed. A number of Panel members attended both the Innovative Farmers! Conference held in Cambridge, February, 1991 and the Great Lakes Discussion Group meeting in Benton Harbour, Michigan, December, 1990. Reports on both meetings were provided to members at their March 3-4, 1991 meeting.
Q	TAP to undertake field trip(s) to visit the farms of at least three immovative farmers during the 1991 growing season.				bers visited nton Pottruff
3					c) Completed. As part of their June, 1991 meeting, TAP visited and toured the farms of Elgin Vessey, Gordon MacPherson and Doug Boughner in the Kettle Creek Watersheds to discuss with these farmers their successes, problems and goals.
	March 31, 1992.				6

DU PLAN DE MISE EN OEUVRE

Fig. No. / Nº de dossier

	In conj sub-cont farmers of the meeting	The Tech continue technolog farmers reduce s emphasis sustainal agricultu	Performs reports members Program	Miles a) Fact Conse and/o Sugge U.S. and compl	b) Two m agric by Na	c) fact three and/o	The cont
Goal Statments / Enoncé de (des) but(s)	d) In conjunction with pilot watershed sub-contractor, invite representative farmers from both test & control sides of the 3 pilot watersheds to a TAP metering so in this way TAP members can be aware of their progress/problems.	The Technology Assessment Panel to continue to search for and help develop technologies for testing that may help technologies for testing that may help reduce soil degradation. The 1991/92 emphasis will continue to be on sustainable and/or alternative agricultural systems and environmental concerns.	Performance Messure reports of field trips provided to TAP members at large and to SWEEP Sub-Program managers.	Nitestones Fact finding teams to attend three Conservation/Environmental Conferences and/or field days by March 31, 1992. Suggestions to date include a trip to a U.S. conference to determine successes and problems associated with cross compliance and other regulatory initiatives.	Two more sustainable and/or alternative agricultural systems will be looked at by March 31, 1992.	fact finding teams to visit farms of three farmers involved in sustainable and/or alternative agriculture by March 31, 1992.	The Technology Assessment Panel to continue to review soil and water research studies to be undertaken in Onsario and to assess research results from federal provincial university.
Salon le plan							
Actuelle							
Variance							
Explanation / Explication	Hot completed. TAP and the scientific authority for the Pilot Watershed Sub-Program jointly agreed through the course of the year that such a session would not be sufficiently productive at this time.	id. Ongoing. However, as the SWEEP Program entered its second last year of operation, the emphasis of the Panel has changed from that of investigating new technologies to one of review and summation.		a) Completed. In the past year, TAP members attended the annual meeting of the Soil and Water Conservation Society, an International Symposium on Windbreaks and Agro-Forestry, and a Land Use Policy Workshop. In addition, members attended the REAP sustainability research tour in Waterloo and Oxford Counties, the Elora Research Farm tour and field day, the Brant, Kent, Essex, Middlesex and Huron County conservation events.	 ib) Completed. The Panel examined red clover in comparison to hairy vetch as a crop cover, strip cropping and the use of buffer strips and windbreaks. 	c) Completed. Fact finding teams looked at different sustainable systems at the farms of John Van Dorpe, Vernon Ruby and Harry Wilhelm.	5. Ongoing.

Agriculture Canada IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

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Goal No. But nº	Goal Statments / Enoncé de (des) but(s)	Selon le plan	Actuelle	Ecart	Explanation / Explication
TAP COMPONENT (Con't)	if (Con't)				
and	and the private sector as well as international work.				
. TAP . com	Performance Messures IAP to have received and critically commented on all research reports produced by the federal Sub-Programs and results assembled from other sources.				
MAT (6 Test of the control of the co	Milestones TAP to have scheduled two speakers at TAP meetings and visit at least two research sites in 1991/92 to become aware of research results, research underway and research plans relative to soil and water degradation. It was suggested that i) an inspector for the Ecological Farmers Association of Ontario address the Panel regarding the work of the association; and ii) the Panel continue to look at the REAP				a) Completed. The Panel visited the Ontario Horticultural Station at Simcoe and the Dethi Research Station. TAP station at Simcoe and the Dethi Research Station. We members examined the REAP research Research Station. We members examined the REAP research results. Speakers at TAP meetings have included Dr. Bev Kay (UG). Wr. Bill Allison (AGCARE), Dr. William Court, Dr. Arthur Loughton and Kenneth Linington.
G 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	field trials. TAP to provide to the SWEEP Management Committee their comments regarding the publication and distribution of all SWEEP reports to be presented to the Panel in 1991/92. Refer to page 24 for a listing of the potential TED studies which will be reviewed.				provided timely comment on the following research reports, studies and documents: - Efficiency of Residue Management for Providing Optimal Corn Growing Conditions on a Wor-Tilled Sandy Loam. - Field Emergence Predicators for Grain Corn Under Wo-Till Management. - Processes Involved in Wobilization of Phosphorus in Different Farming Systems in Southwestern Ontario. - Investigation of Soil and Crop Responses to Fall Subsoiling in Southwestern Ontario. - The Development and Testing of a Dry Fertilizer Placement.
9	TAP on the advisement of the Management Committee to review the wrap up of SMEEP and suggest ways and means of transferring SWEEP resources results in Onterio.				Hachine. The Use of Kelp and Molasses as an Aeration System. Cereal Cover Crop. Ongoing. Following a suggestion by TAP a Technology I ransfer Committee has been organized to transfer SWEEP Transfer to a variety of end-users. This plan for recults to a variety of end-users. This plan for rechnology transfer will be pursued further with more to report next year.

Agriculture REPORT OF Canada IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / Nº de dossier

Explanation / Explication	(b) To be completed January, 1992.				a) As the Bureau operates on a project to project basis, minutes of the Bureau's advisory committee in effect reflect activities undertaken.	b) Completed. To date twelve issues of "infoSource," the Bureau's bilingual newsletter, have been published.	c) Ongoing. The Bureau presently operates EnviroDoc, an on- line database of research. As well a grey literature database called "Ask Elton" is being developed.	 d) Completed. The Bureau is concentrating on supporting and developing their contacts among Innovative Farmers. e) To be conducted prior to corn planting, 1993. 		committee, is preparing a three year Green Plan proposal to fund the bureau. During 1991/92 the bureau has been contracted to complete a number of third party projects.
Varience										
Actualle			180.0 (As of 24/10/90)							
Planned Selon is plan			325.0							
Goel Statments / Enoncé de (des) but(s)	Mater research studies to be undertaken by CMMF in 1992 by January 31, 1992. A suggestion is to invite the chairman of the Soil, Water and Air Sub-Committee of the Ontario Agricultural Services Co-ordination Committee (OASCC) to discuss research priorities proposed for 1991.	CONSERVATION INFORMATION BUREAU	The Soil and Water Conservation Information Bureau to become fully operational in conjunction with the Centre for Soil and Water Conservation at the University of Guelph.	Performance Messure and clientele advisory committee and clientele satisfied with Bureau's second year of operations.	Milestones 1991/92 annual workplan developed and approved by July 31, 1991.	Bureau newsletter published on a bi- monthly basis.	New citations and abstracts in Bureau's on-line database circulated to users by Narch 31, 1992.	People network (advisory/producer/ consumer) continuing over its first full year of operation.	Three more conservation seminars held for impossive farmers supported by March 31, 1992.	A plan to broaden base of financial support for the Bureau and including non-government sources developed by March 31, 1992.
P. See F.	d) TAP	COMSERVATIO	4 C G G L T		3	20	0	8	3	¢

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SPECIAL EPONEMIE CLASSICATION OF STREET, ST.	Selon le plen	Actualia	Verience Ecart	Explanation / Explication
WELLAN LUMBORER				
To have analyzed the social and economic issues complementary to soil and water quality policies and programs, ensuring that present and future policies and programs address identified needs in an efficient marner.	0,			Q. A research project "Conservation Tillage Equipment: Availability, Utilization, and Needs" was completed by the firm of "InfoResults" Limited 03/91. Research contracts are to be awarded in 1991/92 and 1992/93 based on a priorization of research needs by TAP.
Performance Measures requests for proposals sent to at least 30 interested people/organizations/ companies, at least 3 project proposals received proposals, at least 2 projects funded.				
Wilestones 1991/92 research projects selected by April 30, 1991.				
Completed 1991/92 research reports published by March 31, 1992.				
1992/93 research proposals received by March 31, 1992.				

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

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35	Goal Statments / Enoncè de (des) but(s)	Planned Selon le plan	Actualle	Variance	Explanation / Explication
1992/93	A POOR	239.2			
TAP CONFONENT	MOT.	60.2			
÷	The Technology Assessment Panel to maintain its 15-member multidisciplinary composition and actively involve its full membership in both a proactive and reactive role.				
	Performance Messures constructive nature of its work, acceptance of advice by other components of SMEP, all members participate actively, on selected topics Sub-Committees to be formed to proactively investigate these areas of interest.				
6 3	Milestones In conjunction with Project Manager, AGB (Ontario) conduct a final review of TAP activities by March 31, 1993. Management Committee kept informed of TAP findings and recommendations on a				
0	quarterly basis. TAP to prepare by March 31, 1993, a report of their multi-year summary findings and recommendations for discussion with management committee at a special joint meeting or closing SWEEP conference.				for discussion with Management Committee 17/12/91.
~i	The Technology Assessment Panel to provide timely reviews of all technical plans for federal Sub-Programs, and the progress of projects and technical results and to recommend and priorize technologies for evaluation and/or development.				
	Performance Messures timeliness of TAP comments, constructive nature of TAP comments, TAP to meet on a bi-monthly basis. the implementation plans of all federal Sub-programs reviewed.				

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RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

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All interests to any organization of all televal projects and research studies at each life meeting. b) Sales personnel util to invited throughout the course of 1902/33 to present their visit but life be invited throughout the course of 1902/33 to present their visit opinious pagestions required the visit opinious advisors. The rechology Assessment Parel to present their visit of 18s and the visit on the visit of 18s and the visit on the program. The rechology Assessment Parel to maintain established lisison with recognization formation with the visit of 18s and problems to system and problems to system and problems to system and problems to state of 18s and problems to state of 18s and problems to state of any entitie of active the visit of 18s and 18s	Goal No.	Goel Statments / Enoncé de (des) but(s)	Planned Sulon le plan	Actual	Variance Ecart	Explanation / Explication
3 3	TAP CORPO	MENT (Con't)				
3		Milestones Members to be updated on the progress of all federal projects and research studies at each TAP meeting.				
		SMEEP personnel will be invited throughout the course of 1992/93 to present their view points, opinions and/or suggestions regarding the working of TAP and the various Sub-programs.				
		Performance Messures TAP to continue to utilize their contacts with innovative farmers to gather information about new and untested conservation technologies or systems, innovative farmers included in fact finding trips.				
		ers of TAP to attend annual of innovative farmers (cresses and problems seetings of TAP; this 1993.				
	3	TAP to undertake field trip(s) to visit the farms of at least two farms where scientific innovative ideas are being tried and at least two farms where sustainable agriculture is being practiced during the 1992 growing season.				
		In conjunction with management contractor and scientific authority, TAP to visit two co-operating farms on one paired watershed of the Pilot Demonstration Watershed Sub-Program by June 20, 1992.				



RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

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Bad S	Goel Stetments / Enoncé de (des) but(s)	Solon le plan	Actualle	Variance	Explanation / Explication
8	TAP COMPONENT (Con't)				
ଚ	In conjunction with pilot watershed sub-contractor, invite representative farmers from both test & control sites of the 3 pilot watersheds to a TAP meeting so in this way TAP members can be aware of their progress/problems.				
	The Technology Assessment Panel to continue to search for and help develop technologies for testing that may help farmers in Southhestern Ontario to reduce soil degradation. The 1992/93 emphasis will continue to be on sustainable and/or alternative agricultural systems and environmental concerns.				
	Performance Messure , reports of field trips provided to TAP members at large and to SWEEP Sub-Program managers.			•••••	
•	Milestones Fact finding teams to attend three Conservation/Environmental Conferences and/or field days by March 31, 1993. aggestions to date include a trip to a U.S. conference to determine successes and problems associated with cross compliance and other regulatory initiatives.				
ê	Two more sustainable and/or alternative agricultural systems will be looked at by March 31, 1993.				
0	Fact finding teams to visit farms of three farmers involved in sustainable and/or alternative agriculture by March 31, 1993.			•••••	
	The Technology Assessment Panel to continue to review soil and water research studies to be undertaken in				

Page 10

Canada IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / NO de dossier

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P COMPONE	TAP COMPONENT (Con't)				
onta and inte	Ontario and to assess research results from federal, provincial, university and the private sector as well as international work.				
Perf.	Performance Measures TAP to have received and critically commented on all research reports produced by the federal Sub-Programs and results assembled from other sources.				
a) TAP	Mitestones TAP to have scheduled two speakers at TAP meetings and visit at least two more research sites in 1992/93 to become aware of research results,				
5 5 5 5 5 5 5	research underway and research plans relative to soil and water degradation. It was suggested that i) an inspector for the Ecological Farmers Association of Ontario address the Panel regarding the work of the association; and ii) the Panel continue to look at the REAP field trials.				
3828.5	TAP to provide to the SWEEP Management Committee their comments regarding the publication and distribution of all SWEEP reports to be presented to the Panel in 1992/93. Refer to pagefor a listing of the potential TED studies which will be reviewed.				
23378	TAP on the advisement of the Management Committee to review the wrap up of SMEEP and suggest ways and means of transferring SMEEP research results in Ontario.				
8	TAP to review the list of soil and water research studies to be undertaken by QMAF in 1993 by January 31, 1993. A suggestion is to invite the chairman of the Soil, Water and Air Sub-Committee of the Onterio Agricultural Services Co-ordinating Committee (OASCC) to				

BAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

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Actual Varience Ecart Explanation / Explication											Pending a decision by senior management to continue this	component.
Plennad Seion le pien			٥. ٢٢ .								0.0	
Goal Statments / Enoncé de (des) but(s)	discuss research priorities proposed for 1993.	ERVATION INFORMATION BUREAU	The Soil and Water Conservation Information Bureau to become fully operational in conjunction with the Centre for Soil and Water Conservation at the University of Guelph.	Performance Heasure and clientele achisory committee and clientele satisfied with Bureau's second year of operations.	Milestones Armael workplan for bureau developed and approved by its advisory committee, July 31, 1992.	Bureau newsletter published on a bi- monthly basis.	New citations and abstracts in Bureau's on-line data base circulated to users by March 31, 1993.	People network (advisory/producer/ consumer) continuing over its second full year of operation.	Three more conservation seminars held for innovative farmers supported by March 31, 1993.	A plan to broaden base of financial support for the Bureau and including non-government sources developed by March 31, 1993.	SOCIO-ECONONIC EVALLATION CONFONENT	To have analyzed the social and economic issues complementary to soil and water quality policies and programs, ensuring that present and future policies and programs address identified needs in an efficient
32	discu for 1	COMMERVATION	6. The Soil Bureau conjuncti Water Co Guelph.	- Andrew	American de la constante de la	b) Bures	C) New CO	d) Peop	e) Thre for Marc	supplement	SOCIO-ECONON	7. To econ sand prod prod futt

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

Explanation / Explication			Research project(s) will be determined by results from the joverall SWEEP program to date that suggest social and economic issues which require immediate attention.			
Vayuance					 	
Actualia						
Plenned Suion le plen					 	
Gost Statments / Enoncé de (des) but(s)	Mr.	requests for proposals sent to at least requests for proposals sent to at least 10 interested people/organizations/ companies, at least 3 project proposals received for each topic area requesting proposals, at least 1 project funded.	Milestones 1992/93 research projects selected by April 30, 1992. Priority areas for research to be suggested by TAP.	Completed 1992/93 research reports published by March 31, 1993.		
25 F	Marner.	Company of the for propo	Mile 1992/ April	Constitution		

Canada IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

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Kei de (des) but(s) Seion le plan Actuelle Feart Feart 101AL MADGET 1567-3		esarch and sues relating implementing inplementing an and water Southwestern	cial and its soil lies and sent and sent and s address efficient	
But no Goal Statments / Enoncé de (des) bui(s) FIMAL RESULTS TOTAL MEDICET	ave ensured that the produced under the am of the Southwest and Water Quality am are of the highest gothem reviewed by a lis way, helping encurt for the Program to scientific communities accurate advice tario farmers.	CIB to have provided leadership to the Ontario agricultural research and extension community in issues relating to developing and implementing technologies that will address the critical soil degradation and water quality problems in Southwestern Ontario.	To have analysed the social and economic issues complementary to soil and water quality policies and programs, ensuring that present and future policies and programs address identified needs in an efficient marner.	

SUB-PROGRAM # 2

Technology Evaluation and Development

IMPLEMENTATION PLAN RECORD

FICHE DU PLAN DE MISE EN OEUVRE

Implementing Branch/Direction generale responsable	Province	Action New Progosal Amendment Renewal
Research Branch	Ontario	Nouvelle proposition Amendment Modification Renouvellement
		Period/Période F/Y 1992/93 as at October, 1991
Program / Programme		Sub-program / Sous-programme
Southwestern Ontario Soil and Water Qua Enhancement Program	ality	#2 Technology Evaluation and Development Sub-Program Program Manager: Dr. Wally Findlay 519-738-2251

Program or Sub-program description / Description du programme ou du sous-programme

The Technology Evaluation and Development Sub-Program will develop, adapt and evaluate cost effective technologies and technology systems that will lead to soil conservation and improved water quality through reduction of the movement of soil, phosphorous and other chemicals, from crop land to water systems. As such the Sub-Program will consider conservation cropping, conservation tilling and planting, and integrated pest management.

The intent of the Sub-Program is to develop and test technologies and technology systems that have a high probability of being successful on commercial farms. In general, testing of these technologies will occur under commercial farm conditions in priority areas in cooperation with commercial farmers. The technologies or technology systems will be evaluated for their impact on soil quality and crop production, and on economic benefits and costs.

Linkage to agreement or program objectives / Liens avec les objectifs d'entente ou du programme

This Sub-Program will measure the effectiveness of selected technologies which may be used to obtain the target reduction in phosphorous loading of Lake Erie, and which may be used to reduce soil erosion and degradation. The Sub-Program will also be used to determine the most effective methods which may be demonstrated to Ontario farmers in order to obtain the target reduction in phosphorous loading of Lake Erie.

The systematic evaluation of existing and currently useful soil conservation and water quality enhancement technologies will provide an enhanced data base, and through refinement of models, improve predictability of sediment and P loss from crop land. These evaluations will also provide the basis for estimating the contributions of various cropping and tillage practices to the conservation of soil, improved water quality and estimates of costs and benefits of the technologies being tested.

Additionally, the data generated will indicate the most probable and useful direction for development of new technologies which may be developed over the 1990-95 period.

Outline of sub-program operation / Description du fonctionnement du sous-programme

This Sub-Program will be managed by the Harrow Research Station of the Ontario Region of the Research Branch. A scientific authority will be assigned to manage the Sub-Program. Administrative and financial functions related to the administration of the Sub-Program will be the responsibility of the Harrow Research Station.

The day-to-day management of the Sub-Program will be conducted by a management contractor who will be responsible for preparing the overall experimental design for the Sub-Program and managing project contractors. This overall experimental design and all project reports will be critically reviewed by the Technology Assessment Panel.

Project contractors, under supervision of the management contractor, will design, implement and prepare preliminary evaluations of individual technology development and evaluation projects. There may be 50 to 100 of these over the life of the Sub-Program. The project contractors will be responsible for the selection of farm cooperators and for any compensation provided to these cooperators for the use of their land, time, machinery and inputs.

The Agriculture Development Branch will evaluate the economics of the technologies or technology systems being developed and tested. This function will be carried out through a contractor hired for that purpose.

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / NO de dosser

d policy (a) enable oading to improve pr cultural s g, adaptir and tec s soil cons ity (as soil, phoi rom crop rom crop pement of t the ser Consulta		1. Ecological Services for Planning, Guelph, have continued to provide management services to TED. - two months of 1986-87 is identified as Year 1. Some confusion may be avoided by recognizing this terminology.
Measures accurate monthly, quart progress reports to Authority for review tions to the Worlew tions to the Worl the Management Committee accurate sixth year h earn the approval of h agenent Committee, tatements of Work for on (SSC) of pro		1. 5th Year Arnual Report and 6th Year Work Plan presented to IAP. 2. Quarterly Reports completed on time. 3. Statements of Work prepared to accompany requisitions to extend or amend existing contracts, or to initiate new contracts. 5. Start-up Meetings held with contractors coming on stream

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / NO de dos

Explanation / Explication	 Site visits and inspections made or scheduled for this fiscal year to all contracts in field or laboratory; at least once depending on progress of contract. 	 Numerous phone contacts with all contractors. Spread Sheet tracking of committed funds and current claims by contractors established. 	NOTE: Two months of 1986-87 is identified as Year 1. Some confusion may be avoided in recognizing this terminology.		- Mork Plan vetted and approved.	- Five unsolicited proposals received support in keeping with TED objectives. These were closely related to earlier work and might be considered extensions of that work.	- Contract negotiations and contract signing have been very prompt. These include extensions and amendments as well as new contracts.
Feart							
Actualla							
Salon is plan				800			
Goel Statments / Enoncé de (des) but(s)	supervision of project contracts, and contractors.	accurate project tracking and reporting of significant variances with the second quarter report.	Nilestone The Management Contractor enabled to continue for the sixth year of Sub- Program 2, implemented April 1, 1991.	To have continued implementation of work-plans begun in 1988-89 or earlier in the case of multi-year contracts, by establishing additional projects to technologies which show promise of offering improved, reducing soil techniques for reducing soil degradation and improving water quality.	restive, innovative elements of technology for development and evaluation in a detailed, comprehensive work plan vetted by IAP and approved by	the Management Committee, a number of competitive, quality proposals from agencies willing and able to conduct technical research and development related to soil	conservation, timeliness of negotiation and satisfactory contractual arrangements with Project Contractors by Supply and Services Canada,
But no	dis	130e .	a) The con Pro	2. To wor in in the second sec	Perform control to the total works		

REPORT OF RAPPORT DES BUTS
IMPLEMENTATION PLAN GOALS DU PLAN DE MISE EN OEUVRE

File No / N⁰ de dossier

Goal Statments / Enonce de (des) but(s)	Susion is plan	Actualla	Ecarl	Explansiton / Explication
of the Sub-Program and which combine technical expertise of high calibre at both the scientific and farm levels,				- Satisfactory quarterly or monthly reports have been
suitable monthly and quarturly reports satisfactory for administrative purposes,				- Project reports have been slower than anticipated,
satisfactory annual project reports with complete data required by prescribed data bases (e.g. farm Level Economics) and detailed technical analysis for review by the Management				largely because of the time consumer editing, as well as in revision.
Contractor.				- Completed as planned. - The following projects are currently active:
Milestones Contracts of projects, to be conducted during the "91 growing season," to be awarded by SSC by May 1, 1991.				* Land Reshaping on Lowland Soils * Evaluation of Aeration Tillage Systems * Loss of Nitrogen by Microbial Denitrification and Nitrification in Relation to Tillage Wethods * Manure Nanagement for Conservation farming * The Lase of Cover Crops for Mutrient Conservation
x				P movement in Soil as a Function of P Solubility and Reactivity Field Tests of Spring Cereal Cover Crops Field Testing of Cover Crop Systems for Corn and Soybean Field Testing of Cover Crop Systems for Corn and Soybean
				Production Band spray application of Merbicide in Conjunction with Interrow Cultivation Management of Mulch Tillage Systems on Clay Soils
				* Evaluation of Row Crop Planter Modifications * Comparison of Planters and Fertilizer Application Systems for Mortill Corn * Temperature Tolerance of Grain Corn under No till
				Conditions * Rainfall Simulation to Evaluate Erosion Control (3rd
				* Soil Loss by Tillage Erosion (cont.) * Soil Loss by Tillage Erosion (cont.) * Evaluation of 58 Commercial Corn Hybrids in Conventional
				and two Conservation Illiage Systems * The Relationship between Distance from Fencerow or Woodlot into Agricultural Fields and the Presence of Cryptozoic and Foliage Fauna
				- Completed as required.
b) Equipment required for start up on site by Nay 1, 1991.				

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RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / Nº OF Chases

Goal No. Goal Statments / Enoncé de (des) bul(s) But nº	Planned Selon le plan	Actuelle	Ecart	
				. No new field work will be initiated this close to the end
c) Rfp's for additional "fall projects" (eg. fall tillage) issued by SSC by July 1, 1991.				- ditto.
 d) Contracts for "fall projects" awarded by SSC by September 1, 1991. 				. Completed.
e) Implementation plan (1992-93) reviewed by TAP and approved with recommendations by Management Committee, December 1991.				- None (16 refused 1991-92 MYOP)
 To have purchased selected items of capital equipment, delayed from 1990-91, and required to carry out the work specified in the approved work plan. 				
Milestone				. None Required.
a) Capital equipment tenders requested by April 1, 1991.				
 to have reviewed reports completed preliminary contracts (1990-91), presented to TAP for their perusal and used for the direction of additional research. 	o.			
Performance Measures - Report on the Management of Farm Field Variability				
. Report on Evaluation of Aeration Tillage				TAP August 28, 1991
. Report on the Use of Kelp and Molasses in Aeration Tillage Systems				TAP June 26, 1991
Report on the Interaction of Corn Hybrids with Two Levels of Tillage				TAP June 26, 1991
. Report on the Efficiency of residue Management for Providing Optimal Corn Growing Conditions in a Mon-tiled Sandy Lower				TAP June 26, 1991
Report on the Processes Involved in Mobilization of Phosphorous in Different Farming Systems in				Y Donate

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / N[®] de dossier

Explanation / Explication			Wine reports have been released and distributed under SWEEP cover; ten await action.	The final TED workshop was very successfully held in London, warch 5-6, 1991 in collaboration with DMAF, Tillage 2000.	the plan for 1992 is to cooperate with the INNOVATIVE Farmers group in a workshop which they are planning for March 3-4, 1992. They will indicate which projects if any they wish to have presented.					TAP August 28, 1991	TAP August 28, 1991			TAP August 28, 1991
Variance														
Actuelle		••••												
Sulon le plan														
Goel Statments / Enoncé de (des) but(s)	Report on the Effect of Organic Mulches on Soil Moisture and Crop Growth	int on Land Reshaping on Lowland s	Studies on the Control of Problem Weed Species in Conservation Iillage Systems	Report on Optimal Herbicide Use in Conservation Tillage Systems	Report on a Survey of Moisture Distribution between Tile Drainage Laterals and its Relationship to Compaction and Rooting Depth in Flat Clay Soils	Report on the Effects of Tillage on the Quelity of Surface Runoff and Subsurface Drainage Water; Uplands	Report on the Effects of Tillage on the Quality of Surface Runoff and Subsurface Drainage Water; Lowlands	Report on P Movement in Soil as a Function of P Solubility and Reactivity	Report on the Yield Reduction Effects of Crop Residues in Conservation Tillage	Report on Soil and Crop Response to Fall Subsoiling	Report on the Cereal Cover Crop Study	Report on the Use of Cover Crops for Nutrient Conservation	Report on loss of Mitrogen by Microbial Demitrification and Mitrification in Relation to Tillage Methods	Report on the Development and Testing of a Dry Fertilizer Placement Machine
Sol re	. Repor	- Report Soils	Spec	Repo	. Report Distrib Lateral Compact	. Repo	. Repo	. Repo	. Repo	. Rep	. Rep	Rep	Den Ret	Rep



RAPPORT DES BUTS Canada IMPLEMENTATION PLAN GOALS DU PLAN DE MISE EN OEUVRE

Planned Actual Variance Ecart Explanation / Explanation			SWEEP-IED resources are being completely directed to completely directed to completely directed to completely directed to reports by the contractors to TAP, the Working Committee and the Nanagament Committee. The final report should be the loverall TED report which will summarize the administration process and the major findings which relate to the SWEEP goal of reducing P loadings in Lake Erie.	Mone planned, except as indicated above, cooperation with the	Wote: TAP feels the process of report review if working well; also, the training of graduate students on various research projects is to be commended.
Goel Statments / Enoncà de (dea) but(s)	Report on the Response of the Soil Microflora and Fauna to Spring Ploughing of Zerotill and Pasture Soils Report on the Fessibility of Band Spray	Application in Conjunction with Inter- row cultivation in No-till corn	Milestones a) Report printed and distributed under SMEEP covers, February 1, 1992	b) Workshop to be held February 1 - March 31, 1992	To have reviewed progress of active research projects in TED following the sixth 12 month-period of operation.



Canada IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

Explanation / Explication	Budget required exceeds that which has been approved for Sub-Program 2 in 1992/93.	Two months of 1986-87 is identified as Year 1. Same confusion may be avoided in recognizing this terminology.		
Variance				
Actuelle				
Planned Selon te plan	07.30 67.79			3.5
Goel Statments / Enoncé de (des) but(s)	To have satisfactorily maintained the administrative infra-structure for dayreo-day management of the Sub-rogram by retaining the services of the management contractor under the supervision of the Harrow Research Station.	Performance Measures Timely receipt, review and editing of Contractors' reports for presentation to the Working Committee, the Management Committee and TAP. Detailed, accurate seventh year work plans which earn the approval of TAP and the Management Committee. Accurate report tracking and reporting of any significant variances which will affect the TAP schedule.	Wilestone The Management Contractor enabled to continue for three months of the seventh year, April 1, 1992. (A management contract extension was management contract extension was obtained beginning April 1, 1990 to cover this period). To have tracked completion of all TED projects and received reports for projects and received reports for projects and received reports for projects and received reports.	To have completed the schedule of projects outlined in the last and previous work-plans which dat back to 1989-90, or earlier in the case of multi-year contracts, which show promise of offering improved, cost effective techniques for reducing soil degradation and improving water quality.
Goal No. But no	1. To administration of the second se	Time Con Per Con Per Con Per Con Per Con Con Per Con	e d	2. Company of the com

File No / Nº de dossier

Explanation / Explication																								
Foart	 																			***	• • •		••••	
Actuelle	 							•••			•••													
Selon le plen	 	•••												0.0										
Goal Statments / Enoncé de (des) bul(s)	A complete set of reports which have	Management Committee for	distribution to the stakeholders in SWEEP information.	review of each report by the	Technology Transfer Committee of CMAF	(TTC) for the purpose of abstracting and transfering information of SWEEP-	reports to the production sector.	A final report by the Scientific Authority which will record the	the is	aggressed, the results achieved, and the expected contribution of the	alcii.	Milestones Presentation of the project reports to TAP on or before June 30, 1992.	b) Presentation of the final management report to TAP by July 21, 1991.	To have inventoried and returned to	Narrow Research Station for disposal, capital equipment purchased under SWEEP-TED.	Performence Measures Presentation to Agriculture Canada a	current list of physical assets with comment on condition and anticipated	usefulness in future projects.	s or private co	conservation work for presentation to	the Research Branch, AC.	Milestone All projects to have ceased by March 31, 1992.	b) All capital assets returned to or made available to Agriculture Canada	Research Station, Harrow, Ontario by June 30, 1992.
		the	SWEEP	4	Techr		160 1	Autho	admir	the	-	a) Prese	b) Pres	To T		Perf.	COMM	usef		COUS	the	8) ALL 31,	b) All	Rese

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HAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / N^O de dossier

Explanation / Explication								
Ecart				••••••				
Actuelle			••••••					•
Salon le plan		0					0.71	
(Soal Statments / Enonce de (des) but(s)	Any recommendations for disposal to be made to Agriculture Canada by July 21, 1992.	To have reviewed reports of completed contracts, edited and printed for presentation to TAP, the Working Committee, the TIC and the Management Committee for their consideration and recommendation for distribution.	Performance Messures Reports and report summaries provided to TAP and others at the meeting by the contractors who did the work, if at all possible.	Printing and timely mailing to allow committe members to read and prepare questions for the presenters. Preparation of a final report by the Scientific Authority which provides an account of the management of IED, the issues, the expected results and the anticipated significance of those results for conservation farming.	Wilestone The last project reports (those for contracts ending March 31, 1992) to be available and mailed to committee members for scheduled meetings in April and June, 1992.	The final report to be available and scheduled for a meeting on or about July 21, 1992.	To have reviewed and printed project reports and distributed there as directed by the Management Committee; and to have presented and printed for distribution copies of the final report as directed by the Management Committee.	Performere Mesures Project reports for consideration and round-table discussion among peers and TAP members,
But nº	c) Any c made 1992.	6. To he contro	Perform Perfor	Committee	Wite a) The contra avai memb	b) The sche	S. Topo	Programme A

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / NO de dosa

Explanation / Explication Verience Actuals Planned Selon le plan Goal Statments / Enoncé de (des) but(s) 35

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report for consideration and	5	Veri	imin	eader	400	
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final re	d-tet	ĕ	identified	Fich	3	complis
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- Milestones
 a) All project reports to have been reviewed by TAP by June 30, 1992.
- b) Final report to have been reviewed by TAP by July 21, 1992.

Page 25

IMPLEMENTATION PLAN RECORD

FICHE DU PLAN DE MISE EN OEUVRE

Agriculture Development Branch	Ontario	New Proposal Amendment Renewal Renouveliers
		Period/Periode F/Y 1992/93 as at October, 1991
gram / Programme		Sub-program / Sous-programme
Southwestern Ontario Soil and Water Ou Enhancement Program	atity	#2a Technology Evaluation and Development Sub-Program Farm Level Economics Component Program Manager: Robert W. Anderson 519-837-9400
	develop appropriate quality enhancing a	e economic methodology, collect the necessary economic data and conduc gricultural technologies emanating from the Technology Evaluation an 8.
program, will have identified: a) thos	conducting cost/be se technologies whi	mefit studies on the conservation technologies evaluated under the
The Farm Level Economic analysis, by program, will have identified: a) thor public subsidy required for those techn	conducting cost/be se technologies whi cologies which effec hen determine the c	nefit studies on the conservation technologies evaluated under the charille be cost-effective for farmers to adopt, and b) the level of tively improve soil and water quality but which are not cost-effective conditions necessary to achieve the farmer adoption levels which will
The Farm Level Economic analysis, by program, will have identified: a) thompublic subsidy required for those techn for the farmers. The government may to	conducting cost/be se technologies whi cologies which effec hen determine the c	nefit studies on the conservation technologies evaluated under the chail be cost-effective for farmers to adopt, and b) the level of tively improve soil and water quality but which are not cost-effective conditions necessary to achieve the farmer adoption levels which will
The Farm Level Economic analysis, by program, will have identified: a) thompublic subsidy required for those techn for the farmers. The government may to	conducting cost/be se technologies whi cologies which effec hen determine the c	nefit studies on the conservation technologies evaluated under the chail be cost-effective for farmers to adopt, and b) the level of tively improve soil and water quality but which are not cost-effective conditions necessary to achieve the farmer adoption levels which will
The Farm Level Economic analysis, by program, will have identified: a) thompublic subsidy required for those techn for the farmers. The government may to	conducting cost/be se technologies whi cologies which effec hen determine the c	nefit studies on the conservation technologies evaluated under the chail be cost-effective for farmers to adopt, and b) the level of tively improve soil and water quality but which are not cost-effective conditions necessary to achieve the farmer adoption levels which will
The Farm Level Economic analysis, by program, will have identified: a) thompublic subsidy required for those techn for the farmers. The government may to	conducting cost/be se technologies whi cologies which effec hen determine the c	nefit studies on the conservation technologies evaluated under the chail be cost-effective for farmers to adopt, and b) the level of tively improve soil and water quality but which are not cost-effective conditions necessary to achieve the farmer adoption levels which will
The Farm Level Economic analysis, by program, will have identified: a) thompublic subsidy required for those techn for the farmers. The government may to	conducting cost/be se technologies whi cologies which effec hen determine the c	nefit studies on the conservation technologies evaluated under the chail be cost-effective for farmers to adopt, and b) the level of tively improve soil and water quality but which are not cost-effective conditions necessary to achieve the farmer adoption levels which will

Activities under the component will be carried out by a private contractor who will be managed by the Agriculture Development Branch - Ontario office.

The Sub-Program will establish the economic methodology required to evaluate the soil and water quality technologies to be considered under the other federal Sub-Programs. The economic analysis tools required to carry out this evaluation will be developed or adopted.

The contractor will subsequently specify in detail the variables required to carry out the analysis. He will also co-ordinate with the other Sub-Program contractors for the collection of these data. The Farm Level Economics Contractor will collect all economic data including all base-line data.

Finally, the contractor will perform the economic analyses of each technology developed under each Sub-Program. The analyses will include the economic impact of the technology on the farm firm, on the watershed farmers collectively, on the local municipality and on the watershed authority.

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

P. 15	Goal Statments / Enoncé de (des) but(s)	Seion is plan	Actuals	Verience	Explanation / Explication
1992-9	1992-95 RESULT STATEMENT (Agriculture Canada - Agriculture Development Branch - Gadph		••••	•••••	
	To have estimated the likely economic impact on whole farm operations, watershed farmers, local municipalities and conservation authorities of all technologies evaluated under the program which have been deemed as being effective in improving soil and water quality.				
	To have estimated the costs and benefits of obtaining the required phosphorus load reductions to lake Erie under alternative technology adoption scenarios.		••••••		
1991-92	T MAGET	158.1	22.5		
<i>-</i> :	To prepare and conduct economic analyses of all technologies evaluated under the TED and PDW Sub-Programs.	9	(As of 30/11/91)		 Economic evaluation of Tillage 2000 (1986-90) completed and being published.
	Performance Messures to prepare technical reports on the farm level economic impacts of conservation technology systems, to prepare and deliver to the TAP and Management Committee a report on the economic effectiveness of those technologies evaluated, to prepare and present to the TAP and Management Committee a report on the macro-economic impacts of conservation technologies.		***************************************	***************************************	
3	Nilestones Collect economic data required for analyses of each technology evaluated by March 31, 1992.		•••••	•	Ongoing.
â	Economic analysis of farm level data for TED evaluations and POW results in 1990/91 to be completed by March 31, 1992.			<u></u>	Problems experienced by POW contractor in obtaining completed 1989 and 1990 farm field diaries from cooperators.

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / Nº de dossier

Explanation / Explication		Macro-economic model is now Thatized and an interestable assessment of the macro-economic inputs of certain conservation technologies complete.			
Variance Ecan					
Actual	•••••		 	 	
Planned Salon is plan			 	 	
Goal Statments / Enoncé de (das) bul(s)	Analyses of farm level data for TED and PDW results in 1991/92 initiated by March 31, 1992.	To have finalized the model and provided an initial assessment of the macro-economic inputs of conservation technologies by March 31, 1992.			
Gost No. But no	c) Analy POW March	d) To provi			

RAPPORT DES BUTS DU PLAN DE MISE EN GEUVRE

File No / Nº de dousier

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SUB-PROGRAM # 3

PILOT DEMONSTRATION WATERSHEDS

IMPLEMENTATION PLAN RECORD

FICHE DU PLAN DE MISE EN OFLIVRE

Research Branch (Land Resource Research Centre)	Ontario	Action New Proposal Nouvelle proposition Nouvelle proposition Nouvelle proposition Nouvelle proposition Nouvelle proposition Renouvellement
(Land Resource Research Centre)		Period/Période F/Y 1992/93 as at October, 1991
Program/Programme Southwestern Ontario Soil and Water Qua Enhancement Program	ility	Sub-program/Sous-programme #3 Pilot Demonstration Matershed Sub-Program Program Managers: Dr. Greg Wall 519-767-3581

rogram or Sub-program description / Description du programme ou du sous-programme

The Pilot Watershed Sub-Program will develop approaches to and evaluate the effectiveness of implementing comprehensive soil and water conservation practices on all farms in a watershed. The effects of these practices in three treated watersheds will be compared to three control watersheds. Both the treatment and the control watersheds will be evaluated for the impacts on water quality, soil quality, crop production and economic costs and returns. The approaches used to implement the program on the watersheds, and the social considerations and consequences, will be documented and evaluated.

inkage to agreement or program objectives / Liens avec les objectifs d'entente ou du programme

Data from the Pilot Watershed Sub-Program will serve to illustrate that the implementation of comprehensive soil and water conservation practices on all farms in a watershed will result in improved water quality from reduced phosphorus losses.

Further, the impacts of these soil and water conservation practices in bringing about changes in soil quality, crop production and farm productivity will illustrate the potential for improving the profitability of the primary agricultural sector of Southwestern Ontario through conservation management.

Outline of sub-program operation / Description du fonctionnement du sous-programme

This Sub-Program will be managed by the Ontario Soil Survey Unit of the Land Resources Research Centre. A scientific authority will be assigned to manage the Sub-Program. Administrative and financial functions related to the administration of the Sub-Program will be the responsibilty of the LRRC.

The day-to-day management of the Sub-Program will be conducted through a watershed contractor who will be responsible for preparing an overall experimental design, for locating the final set of pilot watersheds, developing master plans for each watershed, and for developing farm plans with each cooperating farmer. The overall plan for the watershed will be critically reviewed by the Technology Assessment Panel.

The LRRC will contract directly for the soil survey work required under the Sub-Program.

(continued)

IMPLEMENTATION PLAN RECORD

FICHE DU PLAN DE MISE EN OEUVRE

Implementing Branch/Direction genérale responsable	Province	Action		
		New Proposal Nouvelle proposition	Amendment Modification	Renewal
		Period / Période	Modification	
Program / Programme		Sub-program / Sous-programme		
Program / Programme				
Program or Sub-program description / Description du program	ime ou du sous-programme			
				*
inkage to agreement or program objectives / Liens avec les ob	ejectifs d'entente ou du progr	amme		

Outline of sub-program operation / Description du fonctionnement du sous-programme

The Agriculture Development Branch will evaluate the farm level economics of the conservation cropping programs implemented in the watershed through a contractor hired for that purpose. The AD budget for evaluation of farm level economics is included in the implementation Plan for the Technology Evaluation and Development Sub-Program.

Environment Canada and the Ontario Ministry of the Environment will implement a comprehensive water quality and quantity monitoring program in these and other watersheds tributary to Lake Erie. It will be the responsibility of these agencies to demonstrate that recent point and nonpoint source pollution control programs have led to a 200 tonnes per year reduction in P loading to Lake Erie.

REPORT OF IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / Nº de dossier

Goel No.	Goal Statments / Enoncé de (des) but(s)	Sulon le plan	Actuelle	Ecarl	Explanation / Explication
1992-93 R	1992-93 RESLAT STATEMENT (Agriculture Canada - Land Resource Research Centre - Guelph)				planned budget figure revised to reflect TB refusal to consider 91/92 MTOP.
By 1997 to estifor in water number predic qualit	By 1993 to provide the information required to establish guidelines and recommendations for implementation of approved soil and water conservation practices on large runders of farms and a capability to predict a resultant improvement in water quality attributable to these practices.				
1991-92	BUDGET	900.0	290.8 (As of 31/09/91)		
	To continue field data collection to monitor impacts of practices implemented at the farm level on soils, agronomy, water quality and socioeconomics. Performance Nessure Performance Nessure soils, agronomic, socio-economic and sociousoils, agronomic, socio-economic and souls, socio-economic and souls, socio-economic and souls, socio-economic and socio-econ				
•	Milestones Soils and agronomic data collected by November 30, 1991.				a) Benchmark monitoring is on-going. b) Number of samples collected from September 1990 to August
â	Water quality data collected by March 31, 1992.				Essex 10 10 Kettle Creek 12 10 Pittock 11 14
					Rainfall simulation runs: 2 sets completed by June 1991 1 set planned for fall
6	Socio-economic data collected by December 15, 1991.				c) A survey of the co-operators is underway.
	To evaluate data, modify data collection techniques as appropriate and prepare data summaries and reports.				
•	Performance Measure continued evaluation of conservation farming systems in terms of their overall effectiveness.				

* REPORT OF IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / NO de dossier

	Goel Statments / Enoncé de (des) but(s)	Sulon le plan	Actuelle	Variance Ecart	Explanation / Explication
Milest a) Soils prepar	Milestones Soils and agronomic data summaries prepared by March 1992.				
b) Water q 31, 199 scales.	Water quality data summaries by March 31, 1992 for plot, field and watershed scales.				
c) Soci rele Touc	Socio-economic data summarized and relevant data sent to Deloitte and Touch by December 15, 1991.				c) Discussions between CMS and DI re: dissemination of data
To	To conduct information meetings and watershed tours.				
popo to ge	Performance Messures to conduct co-operator information meetings in each watershed, to conduct watershed tours for co- operators, research and extension personnel and others involved in SWEEP.				
a) Co-o	Milestones Co-operators meetings (at least two per year) to discuss farm planning progress and review significant results with the landowners.				a) - Co-operator visits to no-till fields in all watersheds - on-going discussions between co-operators and contractors re farm planning and results
b) Arr	Arrange watershed tour or information day to preview results of study by March 31, 1992.				b) - presentation of preliminary results to TAP - TAP tour of two watershed farms
4. To eva	To evaluate the impact of technology used on soils, crops, water, and economic issues				
a d	Performance Messure preliminary report on the data analysis				
3	Milestone evaluation of impacts of conservation measures on soils, crops, and water quality by February, 1992.				a) On-going.
S. To have	To have evaluated data that document the successes and failures of the approaches used.				
2 %	Performance Messure preliminary reports on the Sub-Program				

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REPORT OF RAPPORT DES BUTS
IMPLEMENTATION PLAN GOALS DU PLAN DE MISE EN OEUVRE

a) pretializary reports by March 31, 1992.	P 20	Goal Statments / Enoncé de (des) but(s)	Planned Selon le plan	Actualia	Verience Ecart	Explanation / Explication
	e pre	sstore Liminary reports by March 31, 1992.				
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Agriculary Canada IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

But no USB Statments / Enonce de (des) but(s)	Seion le pien	Actual	Variance	Euplanation / Fortingion
1992-93				
To continue field data collection to monitor impact of practices implemented at the farm level on soils, agronomy, water quality, and socio-economics.			•••••	
Performance Messures - soils, agronomic, water quality, and socio-economic data collected				
Milestones 8) Soils and agronomic data collected by April 30, 1992.				
b) Water quality data collected by May 31, 1992.				
c) Socio-economic data collected by March 31, 1992.			••••	
To evaluate data, modify data collection techniques as appropriate and prepare data summaries and reports.				
Performance Measures continued evaluation of conservation farming systems in term of their overall effectiveness		••••••	•••••	
Milestones a) Soils and agronomic data summaries prepared by September 1992.		•••••	•••••	
b) Water quality data summaries by September 1992 for plot, field and watershed scales.				
c) Socio-economic data summarized and relevant data sent to Deloitte-Touche by April 1992.				
To conduct information meetings and watershed tours.		••••		
Performance Ressures to conduct co-operator meetings in each watershed				

a No / Nº de dossi

	Selon le plan	Actuelle	Verience	Explanation / Explication
to conduct watershed tours for co-				
operators, research and extension personnel, and others involved in SWEEP			••••	
Milestones a) Co-operator meetings to discuss farm planning progress and review significant results with the landowners.				
b) Arrange watershed tour or information day to preview results of study by September 20, 1992.				
To evaluate the impact of technology used on soils, crops, water, and economic issues.			*****	
Performance Measures preliminary report on the data analysis		••••		
Milestones Evaluation of impacts of conservation measures on soils, crops and water quality by August 1992.		••••••	•••••	
To have evaluated data that document the successes and failures of the approaches used.				
Performance Measures preliminary reports on the sub-program				
Nilestones Preliminary reports by September 30, 1992.	••••••		******	
		••••••		
			••••••••	

Page 35a

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IMPLEMENTATION PLAN

FICHE DU PLAN DE MISE EN OEUVRE

Implementing Branch/Direction genérale responsable	Province	Action					
Water Resources (OMOE)	Ontario	New Proposal Nouvelle proposition X Amengment Modification Renouvellement					
		Period/Période F/Y 1992/93 as at October, 1991					
Program / Programme		Sub-program / Sous-programme					
Southwestern Ontario Soil and Water Que Enhancement Program	slity	#3a Pilot Demonstration Watershed Sub-Program, Water Quality Monitoring Component Program Manager: Jim Eddie 416-323-4821					
Program or Sub-program description / Description du programm							

The Pilot Watershed Water Quality Monitoring Program will develop and implement a plan for determination of long term and short term water quality variation in the six pilot watersheds established and operated by Agriculture Canada, LRRC. The watersheds are paired as to control and test watersheds and will be sampled concurrently for water quality parameters of interest, particulary phosphorus and sediment. This will be done intensively during runoff events and less intensively during interevent periods. Data will be integrated with Water Survey of Canada hydrometric information to derive export rates of phosphorus to assess the effectiveness of the implemented conservation farming practices.

Linkage to agreement or program objectives / Liens avec les objectifs d'entente ou du programme

Export rate information from the paired watersheds will be evaluated to determine unit area load differences associated with the implementation of agricultural best management practices. This information will be further evaluated in an integrated modelling framework to determine progress of the Southwestern Ontario Soil and Water Quality Environmental Enhancement Program toward achievement of the 200 tonnes phosphorus loading reduction in the Lake Erie Basin.

Outline of sub-program operation / Description du fonctionnement du sous-programme

The monitoring program of sample collection and analysis will be co-ordinated by OMOE. Field program tasks of equipment maintenance and sample collection will be co-organized with the Water Survey of Canada. Overall integration and evaluation of the water quality and water quantity results will be carried out under the guidance of the Non Point Source Committee. Evaluation of agronomic and economic aspects will be carried out under the guidance of the SWEEP Management Committee.

REPORT OF IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS N GOALS DU PLAN DE MISE EN OEUVRE

Fide No / N^O de dossier

Egan Egan		"Budget expenditures are not part of overall funding for	 All significant rainfall-runoff events in each of the watershed pairs were sampled in addition to baseflow sampling at regular intervals. 	 The real time environmental monitoring systems continue to function well. 	3. As a result of well below normal rainfall conditions, streams in the watershed pairs generally ceased to flow at the end of June and remained dry through the end of October. This is a noteable contrast to the continuous flows recorded through the "wet" summer of 1990.	Agreements with the Contractor and the MOE Regional Lab for collection and analysis of water samples are continuing.	Milestorms a) Quarterly documentation of water quality sampling and analytical results has been provided.	b) A draft report detailing phosphorus and sediment loadings through the first two years of field sampling has been received for review.	c) A final report detailing the environmental manitoring data through March 31, 1990 was provided to the Mon-Point Source Committee.
Actualia		5.94	30/09/91)	•••••				•••••	
Selon to plan		13.9							
Goal Steiments / Enoncé de (des) but(s)	ESULT STATEMENT (Ontario Ministry of Environment) To have provided a water quality data base at the outlets of six pilot demonstrator ustersheds for five years of study. When integrated with hydrometric data to produce watershed export rates on seasonal, event and arrural bases, the data will provide the means to assess the effectiveness of the implemented agricultural practices.	NOGET	To continue collection and analysis of baseflow and event run-off water quality data throughout the year from the outlets of the 3 pairs of watersheds.	To maintain and operate automated equipment.	To regularly monitor water flow to ensure that all significant runoff events are sampled.	Performance Messures Contractor/MOE Agreement renewed,	Laboratory/Analysis Agreement renewed. Mitestorem quality data documented	rily. quality data comb ty data to estimate to data sediment by f	c) Date provided to Mon-point Source Committee and SMEEP watershed Contractor for respective analyses.
2	200	1991-92	-	2	ri.		. 1		3

Canada IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS
DU PLAN DE MISE EN OEUVRE

Bed No.	Goal Statments / Enoncé de (des) but(s)	Planned Selon le plan	Actualia	Variance	Explanation / Explication
1992-93	TOUR				*Budget expenditures are not part of overall funding for SMEEP.
of depth a	To continue collection and analysis of baseflow and event run-off water quality data through lune, 1990 from the outlets of the 3 pairs of watersheds.				
2. To equ	To maintain and operate automated equipment.		••••		
3. To ens	To regularly monitor water flow to ensure that all significant runoff events are sampled.				
	Performance Measures Contractor/MOE Agreement renewed, Laboratory/Analysis Agreement renewed.				
333	Milestones Water quality data documented quarterly.				
3 6 6 5	Water quality data combined with quantity data to estimate loadings of phosphorus and sediment for spring runoff by September 30.				
0	Data provided to Non-Point Source Committee and SUEEP watershed contractor for respective analyses.				
Final Results					
of the second	To have collected and evaluated data which when integrated with hydrometric data, provide estimates of watershed export rates on event, seasonal and annual basis. This program will provide a data base for the assessment of the effectiveness of the implementation of conservation farming practices on a watershed scale.				

Page 38

IMPLEMENTATION PLAN RECORD

FICHE DU PLAN DE MISE EN OEUVRE

Implementing Branch/Direction generale responsable	Province	Action
Water Resources Branch Ontario Region Environment Canada	Ontario	New Proposal Nouvelle proposition X Amendment Modification Renewal Renouvellement Period / Période F/Y 1992/93 as at October, 1991
Program/Programme Southwestern Ontario Soil and Water Qualit Enhancement Program	у	Sub-program/Sous-programme #3b Pilot Demonstration Watershed Sub-Program, Water Quantity Monitoring Component Program Manager: Len Kamp 519-821-0110
Program or Sub-program description / Description du programme ou Water quantity and water quality monitoring determine effectiveness of farm practices	g will be undertake	n at one site in each treated and control watershed (3 pairs) to ed pollutants.

Linkage to agreement or program objectives / Liens avec les objectifs d'entente ou du programme

Mater quantity data is one of the data components that will form the basis for determining whether wide scale application of specific farm practices will achieve a reduction of 200 tonnes/yr P from agriculture non-point sources in the Lake Erie Basin as targeted in the Phosphorus Management Plan being implemented under Canada/Ontario Great Lakes Water Quality Agreement. Monitoring at each site will be undertaken jointly by Environment Canada and Ontario Ministry of Environment.

Outline of sub-program operation / Description du fonctionnement du sous-programme

Environment Canada will design, construct and operate one water quantity station in each treated and control watershed (3 pairs) to provide a continuous record of streamflow over the duration of the study. Raw water quantity data will be collected, processed and provided to cooperating agencies. This information, along with water quality data collected by MOE, will allow pollutant loadings to be computed for each watershed. Overall integration and evaluation of the results for water quantity and quality monitoring will be carried out under the guidance of the Non-Point Source Committee.

IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / Nº de dossier

Explanation / Explication		*Budget expenditures are not part of overall funding for	June 1991/92 period. Low and no flow conditions were experienced most of the summer at several stations. Dredging was completed to remove vegetation in the charmel near the gauge on the control watershed at Essex.		a) On tanget.	b) Report will be replaced by summary report at the end of the monitoring program.	
Variance Ecart							
Actualle		17.0	30, 1991)			••••••	
Planned Selon le plan		55.0*					
Goal Statments / Enoncé de (des) but(s)	By 1993 to have provided sufficient water quantity date at a selected outlet in each of bilot demonstration watersheds as a component of date collection activities to determine effectiveness of selected farming practices and to demonstrate reduced P loading in the Lake Erie Basin from wide scale application of new and improved farming practices.	BABGET	Collect, process and publish water quantity and any selected sediment data from 6 stations and supply provisional data to cooperating agencies as required.	Performance Measures at least 90% data capture at each station, provisional data supplied within 60 days of request,	Milestones Approval of 1991 data by March 1, 1992.	Prepare report summarizing data collected by March 31, 1992.	
25 E	1992-95 RESELT By 199 Water outlet water collec effect practi	1991-92	1. Collect, quantity from 6 st data to required.	et lessi station, provision days of i	Milesi e) Appro-	b) Prepare collecte	



HEPORT OF IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / N^O de dossier

Explanation / Explication	Assumes operation of stations until June 30, 1992.					Recueled (N) Punior
Veriance Ecan						
Actual						
Planned Salon le plan	\$ %					
Goel Statments / Enoncé de (des) but(s)	A 350MB	Collect, process and publish water quantity and selected sediment data quantity and selected sediment data and supply provisional data as requested as part of the data collection program to determine the effectiveness of selected farming practices in reducing pollutant loadings.	Performence Measures at least 90% data capture at each station, provisional data supplied within 60 days of request, approval of data and summary report by specified date.	Milestones a) Approval of 1992 data by September 30, 1992. b) Summary report on data collected and operation of stations by December 31, 1992.	By 1993 to have provided sufficient water quantity data at a selected outlet in each of 6 pilot demonstration watersheds as a component of data collection activities to determine effectiveness of selected farming practices and to demonstrate reduced P loading in the Lake Erie Basin from wide scale application of new and improved farming practices.	
Goal No. But no	1992-93	from from from from from from from from	· · ·	8 (d	FINAL RESULT	

SUB-PROGRAM # 7

ADMINISTRATION
MONITORING
PUBLIC INFORMATION

IMPLEMENTATION PLAN RECORD

FICHE DU PLAN DE MISE EN OEUVRE

implementing Branch/Direction générale responsable	Province	Action
Agriculture Development Branch	Ontario	New Proposal Nouvelle proposition Amendment Modification Renouvellement
		Period/Période F/Y 1992/93 as at October, 1991
Program / Programme		Sub-program / Sous-programme
Southwestern Ontario Soil and Water Qui Enhancement Program	ality	#7 Administration, Monitoring and Public Information Sub-Program Program Managers: Gary Helson, Robert W. Anderson, Lisa Hardey 510-837-9400

Program or Sub-program description / Description du programme ou du sous-programme

The Administration, Monitoring and Public Information Sub-Program will be responsible for the overall administrative and public information components of the SWEEP initiative.

This involves the co-ordination, facilitation and linkage of the work of the various sub-programs to the overall soil productivity and phosphorus reduction objectives of SWEEP: this as set out in the Canada Ontario Agreement on Southwestern Ontario Soil and Water Quality Enhancement of 1986 and the (preceeding) 1983 ANNEX III to the Canada/United States Great Lakes Water Quality Agreement of 1978.

Linkage to agreement or program objectives / Liens avec les objectifs d'entente ou du programme

The Administration and Monitoring aspects will ensure that all Sub-Programs are coordinated on a day-to-day basis and are contributing to the objectives of the Program in a timely, efficient and cost effective manner. This Sub-Program co-ordinates and compiles the various program reports, i.e. Annual Report, Yearly Implementation Plan, Quarterly Updates, Evaluation Assessments, Financial Reports by month, quarter, year.

The Public Information component will help to generate the positive public and farm environment that will encourage early and active involvement in the Program and sustained interest in the Program over its five year life.

Outline of sub-program operation / Description du fonctionnement du sous-programme

This Sub-Program will be carried out jointly with the Ontario Ministry of Agriculture and Food. The federal portion will be managed by the Agriculture Development Branch. The Federal unit will be headed by an officer who will work closely with his/her provincial counterpart as well as with the Scientific Authorities and administrative units at LRRC and Harrow.

REPORT OF IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

FIRM No / N. OF CELSION

Goal No. Goal Statments / Enonciè de (des) but(s)	Planned Sulon to plan	Actuelle	Fcart	1	
Butno	165.4				
1991-92 SERVENT CONFONENT	127.4	(As of 30/11/91)		1. Ongoing.	ng.
1. To have provided the best possible administrative support to ensure that the Program is implemented in a timely and cost effective manner.	******				
performance Messures quality of administrative support, timeliness and accuracy of reports					
generation (by Management Committee) of approval (by Management Committee) of work and reports completed.				ê 	Comments made are being incorporated into final draft. As a result, printing and distribution will
Milestowes a) Program armual report (1990-91) program armual report prepared and distributed by December 31 1991.				9	occur in December, 1991. Done.
p submission comple 5, 1992.				3	Dane.
c) implementation plans for 1992/93 completed by December 31, 1991.				ਚ 	Done.
d) All quarterly and year end financial and administrative reports and documents prepared for the Management Committee, ADC, central agencies and the Agriculture Development Branch.					
PABLIC INFORMATION CONFONENT	30.0	9.2 KAs of 30/11/91)			Ongoing
2. To have sensitized the farm and urban public to the nature and consequences of soil erosion with its resultant uster quality problems, and the nature uster quality problems, and the nature and intent of the program, this to and intent of the program, this to public.					
					Recycled A

number

Goal 76

REPORT OF IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

Environmental Week 3-8/06/91; the Agriculture in the Classroom Teacher's Conference 12/08/91; and the Norfolk County Fair 8-14/10/91. It was withdrawn from service after the Norfolk County To date the SWEEP Exhibit has been displayed at the Ontario Pork Congress 25-27/06/91; the OPIRG Guelph To date __ press releases have been prepared and distributed. newsletters have been prepared and Explanation / Explication distributed. To date 0 9 6 Variance Actuelle Planned Selon le plan Recommendations from 1989/90 review incorporated into process for 1990/91 review presented to Working Committee, approval of arrual review report by To have completed the 1990/91 review of c) SWEEP exhibit displayed at seven selected agricultural events by March a) Up to ten news/press releases prepared and distributed by March 31, 1992. Four editions of SWEEP newsletter produced and published by March 31, Goel Stetments / Enoncé de (des) but(s) initiative and issues of soil erosion and its impact on water quality of Lake Erie (this as measured by requests for information, speakers, display of events, media public and media awareness of sueep a) Recommendations from 1989/90 information, speakers, Management Committee. Performance Messures Performance Measures number of releases, articles prepared; b) Four editions exhibit, etc.) MONITORING COMPONENT Hilestones

A Papier Paper Recycled

hired and 1990/91 review

initiated by May, 1991.

c) Student

1990/91 review completed and accepted by Management Committee by September,

ê

review

SWEEP.

'n

REPORT OF IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / No de dossier

FEDERAL ADMINISTRATION COMPONENT 1. To have provided the best possible administrative support to ensure that the program is implemented in a timely and cost effective manner. Performance Messures quality of administrative support, timeliness and accuracy of reports generated, approval (by Management Committee) of work and reports completed.	
best possible to ensure that ted in a timely fr. we support, cy of reports t Committee) of ted.	
To have provided the best possible administrative support to ensure that the Program is implemented in a timely and cost effective manner. Performance Measures quality of administrative support, timeliness and accuracy of reports generated, approval (by Management Committee) of work and reports completed.	
Performance Measures quality of administrative support, timeliness and accuracy of reports generated, approval (by Management Committee) of work and reports completed.	
Milestones a) Program annual report (1990-91) prepared and distributed by December 31, 1992.	
b) Fall MYOP submission completed by January 15, 1993.	
c) All quarterly and year end financial and administrative reports and documents prepared for the Management Committee, ADC, central agencies and the Agriculture Development Branch.	
d) A final SWEEP wrap-up conference is to be held in conjunction with the Technology Assessment Panel by Warch 31, 1993.	
PUBLIC INFORMATION COMPONENT	
To have sensitized the farm and urban public to the nature and consequences of soil erosion with its resultant water quality problems, and the nature and intent of the Program, this to ensure support among the urban and farm public.	

Canada IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS
DU PLAN DE MISE EN OEUVRE

File No / N^G de dossier

		Selon le plan	Actuelle	Variance	Explanation / Explication
Performence Measures articles prepared; public and media awareness of SWEEP initiative and issues of soil erosion and its impact on water quality of Lake Erie (this as measured by requests for information, speakers, display of exhibit, etc.)	media Sueep rosion f Lake ts for y of				
Milestones a) Up to ten news/press releases prepared and distributed by March 31, 1993.	pared				
b) Four editions of SWEEP newsletter produced and published by March 31, 1993.	31,				
NONITORING COMPONENT		58.0			
To have completed the 1991/92 review of SWEEP.	to ma				
Performance Messures - review presented to Working Committee, - approval of annual review report by Management Committee.	t by				
Milestones a) Recommendations from 1990/91 review incorporated into process for 1991/92 review.	review 1991/92				
b) 1991/92 review completed and accepted by Management Committee by September, 1992.	epted mber,				
c) Student hired and 1991/92 r initiated by May, 1992.	review				

REPORT OF IMPLEMENTATION PLAN GOALS

RAPPORT DES BUTS DU PLAN DE MISE EN OEUVRE

File No / N^D de dossier